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(54) **DECENTRALIZED CONTROL UNIT, SYSTEM, AND CONTROLLER**

(57)Abstract:
PURPOSE: To provide a controller which has many kinds of
various control function for a decentralized control system.
CONSTITUTION: Controllers 1-6 consist of plural processors
which perform numerical operation, sequence operation,
neural net(NN) operation, fuzzy operation, etc. The controllers
1-6 are reduced in size by the configuring technology with
LSI. Further, processor functions and I/O functions are made
programmable to increase flexibility. A program incorporates
a simple standard program and learnt models of the NN, etc.,
and weights and adds plural calculated outputs to generate
output data. Further, the value of weighting is updated by
learning. Consequently, the decentralized control system
having many kinds of various control function such as
numerical operation control, sequence control, NN application
control, and fuzzy application control and the controllers used
for them can be provided.